

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-7 (canceled)

Claim 8 (currently amended): An isolated polypeptide encoded by an isolated nucleic acid fragment selected from the group consisting of:

- (a) an isolated nucleic acid fragment encoding SEQ ID NO:2 ~~SEQ ID NO: 2~~;
- (b) an isolated nucleic acid fragment encoding an amino acid sequence having at least 98% identity with SEQ ID NO:2; and
- (c) an isolated nucleic acid fragment that hybridizes with the isolated nucleic acid fragment of (a) under hybridization conditions of 6× SSC (1M NaCl), 45 to 50% formamide, 1% SDS at 37 °C, and a wash in 0.5× to 1× SSC at 55 to 60 °C; and

wherein said polypeptide is parathyroid hormone anabolic induced gene in bone (PAIGB) polypeptide and has osteoblast bone forming activity in bone tissues.

Claim 9 (currently amended): The isolated polypeptide of claim 8 having the amino acid sequence set forth in SEQ ID NO:2 ~~SEQ ID NO: 2~~.

Claim 10 (previously presented): The isolated polypeptide of claim 8, which is involved in parathyroid hormone signaling pathway.

Claim 11 (previously presented): The isolated polypeptide of claim 8 which when overexpressed induces bone forming activity in bone tissues.

Claim 12 (previously presented): The isolated polypeptide of claim 8 which is overexpressed in response to intermittent parathyroid hormone administration.

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Claims 13-37 (canceled)

Claim 38 (currently amended): A composition for regulating bone-forming activity in a mammal comprising an isolated polypeptide of ~~Claim~~ claim 8.

Claim 39 (previously presented): A composition according to claim 38, wherein said parathyroid hormone anabolic induced gene in bone polypeptide is from human osteoblast cells.

Claim 40 (previously presented): A composition according to claim 38, wherein the bone forming activity is the regulation of bone growth.

Claim 41 (previously presented): A composition according to claim 38, wherein the bone forming activity is regulation of bone density.

Claim 42 (currently amended): The composition according to claim 38, wherein the parathyroid hormone anabolic induced gene in bone polypeptide has the amino acid sequence set forth in SEQ ID NO:2 ~~SEQ ID NO: 2~~.

Claims 43-88 (canceled)